

CONFIDENTIAL  
Release Date 6-10-69

P-W

UNION #1 NAVAJO-166  
NW NW Sec. 20-6N-6W Apache County

sl

COUNTY Apache AREA 18 mi SE/Lukahukai LEASE NO. 14-20-0603-1226  
Navajo Tract 166

WELL NAME Union #1 Navajo-166

LOCATION NW NW SEC 20 TWP 6N RANGE 6W FOOTAGE 600 FNL 984 FWL  
ELEV 7561' GR 7572' KB SPUD DATE 11-27-68 STATUS 12-20-68 TOTAL DEPTH 2800'  
COMP. DATE

CONTRACTOR Loffland Brothers

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY	
<u>8 5/8"</u>	<u>327'</u>	<u>170 SKS</u>	<u>NA</u>	<u>x</u>	
				DRILLED BY CABLE TOOL	
				PRODUCTIVE RESERVOIR	
				INITIAL PRODUCTION	<u>Dry</u>

FORMATION TOPS	DEPTHS	SOURCE		REMARKS
		L.L.	E.L.	
Chinle	Surface	x	x	
Shinarump	420'			
DeChelly	543'			
Supai	1320'			
Hermosa	1821'			
Molas	2246'			
Redwall	2325'			
Ouray	2418'			
Elbert	2428'			
McCracken	2636'			
Aneth	2680'			
Metamorphosis	2754'			

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG
Formation Density, Sidewall	N A	NA	Am Strat
Neutron, Dual Induction			SAMPLE DESCRP.
Later log			SAMPLE NO. <u>10-11-68</u>
			CORE ANALYSIS
			DSTs
REMARKS			APP. TO PLUG <u>x</u>
			PLUGGING REP. <u>x</u>
			COMP. REPORT <u>x</u>

WATER WELL ACCEPTED BY

BOND CO. St. Paul Fire & Marine Ins. Co.

BOND NO. 400 CF 7948/15194

BOND AMT. \$ 25,000

CANCELLED 10-30-70

DATE 10-31-68

FILING RECEIPT 9559

LOC. PLAT x

WELL BOOK x

PLAT BOOK x

API NO. 02-001-20087

DATE ISSUED 11-6-68

DEDICATION W/2 NW/4

PERMIT NUMBER 477

**CONFIDENTIAL**

(over)

Release Date 6-10-69

NO.	FROM	TO	RESULTS
1	2640	2675	SEE COMPLETION REPORT
2	2644	2675	
3	447	510	

		CORE RECORD	
NO.	FROM	TO	RECOVERY

DATE STARTED - COMPLETED		WORK PERFORMED	NEW PERFORATIONS

ADDITIONAL INFORMATION

CONFIDENTIAL

WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG																	
DESIGNATE TYPE OF COMPLETION:																	
New Well	<input type="checkbox"/>	Work-Over	<input type="checkbox"/>	Deepen	<input type="checkbox"/>	Plug Back	<input type="checkbox"/>	Same Reservoir	<input type="checkbox"/>	Different Reservoir	<input type="checkbox"/>	Oil	<input type="checkbox"/>	Gas	<input type="checkbox"/>	Dry	<input checked="" type="checkbox"/>
DESCRIPTION OF WELL AND LEASE																	
Operator Union Oil Company of California					Address P.O. Box 1611 - Casper, Wyoming 82601												
Federal, State or Indian Lease Number or name of lessor if fee lease 14-20-0603-1226					Well Number 1-166		Field & Reservoir Wildcat										
Location 600' FNL and 984' FWL (NW NW)					County Apache												
Sec. TWP-Range or Block & Survey Sec. 20; T.6N; R.6W																	
Date spudded 11-27-68		Date total depth reached 12-7-68		Date completed, ready to produce		Elevation (DF, RKB, RT or Gr.) 7,572' KB		Elevation of casing hd. flange									
Total depth 2,800'		P.B.T.D.		Single, dual or triple completion?		If this is a dual or triple completion, furnish separate report for each completion.											
Producing interval (s) for this completion				Rotary tools used (interval) 0 - 2,800'		Cable tools used (interval)											
Was this well directionally drilled?		Was directional survey made?		Was copy of directional survey filed?		Date filed											
No		No															
Type of electrical or other logs run (check logs filed with the commission) Formation Density, Sidewall Neutron, Dual Induction Laterolog						Date filed 12-8-68											
CASING RECORD																	
Casing (report all strings set in well—conductor, surface, intermediate, producing, etc.)																	
Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Amt. pulled											
Surface	12-1/4	8-5/8	24	327.06	170	-0-											
TUBING RECORD					LINER RECORD												
Size in.	Depth set ft.	Packer set at ft.	Size in.	Top ft.	Bottom ft.	Sacks cement	Screen (ft.)										
PERFORATION RECORD					ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD												
Number per ft.	Size & type	Depth Interval			Am't. & kind of material used		Depth Interval										
INITIAL PRODUCTION																	
Date of first production		Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump): Plugged and Abandoned															
Date of test	Hrs. tested	Choke size	Oil prod. during test bbls.	Gas prod. during test MCF	Water prod. during test bbls.	Oil gravity ° API (Corr)											
Tubing pressure	Casing pressure	Cal'd rate of Production per 24 hrs.	Oil bbls.	Gas MCF	Water bbls.	Gas-oil ratio											
Disposition of gas (state whether vented, used for fuel or sold):																	
CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the <u>District Drilling Supt.</u> of the <u>Union Oil Company of California</u> (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.																	
Date December 13, 1968		Signature <u>A. T. Mannon, Jr.</u>															
Permit No. <u>477</u> dated <u>11/6/68</u>					STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION Well Completion or Recompletion Report and Well Log Form No. 4 File One Copy												

(Complete Reverse Side)

# DETAIL OF FORMATIONS PENETRATED

Formation	Top	Bottom	Description*
<b>LOG TOPS</b>			
Chinle	Surface		DST # 1 - 2,640 - 2,675' - Packer Failed.
Shinarump	420		DST # 2 - 2,644 - 2,675' - TO 10 min.; SI 30 min.;
De Chelly	543		TO 30 min.; SI 60 min. - Tool opened w/ weak blow,
Supai	1,320		increased to strong in 1 min. and continued for 10
Hermosa	1,821		min. 2nd opened w/ strong blow for 30 min.
Molas	2,246		IHP 1232; IFP 26 - 277; ISIP 743; FFP 290 - 547;
Redwall	2,325		FSIP 743; FHP 1225. Recovered 120' Muddy salt water
Ouray	2,418		and 1,100' salt water.
Elbert	2,428		DST # 3 - 447 - 510' - TO 10 min., very weak blow,
McCracken			dead in 4 min.; SI 20 min.; TO 10 min., no blow;
Member	2,636		SI 20 min. - No recovery. IHP 178 - FHP 178.
Aneth	2,680		
Metamorphosis	2,754		
T.D.	2,800		
<b>PLUGGED AND ABANDONED AS FOLLOWS:</b>			
	2,550	2,750	70 sack cement plug
	2,275	2,375	35 sack cement plug
	1,275	1,375	35 sack cement plug
	500	600	35 sack cement plug
	275	300	30 sack cement plug
			10 sack cement plug at surface. Set 4" pipe Dry
			Hole Marker. Heavy drilling mud between plugs.
			Plugged and Abandoned 9 A.M. 12-10-68.

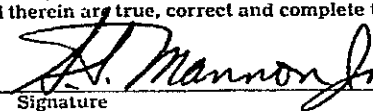
\* Show all important zones of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

## INSTRUCTIONS:

Attach drillers log or other acceptable log of well.

This Well Completion or Recompletion report and well log shall be filed with the State of Arizona Oil & Gas Conservation Commission not later than thirty days after project completion.

Form No. 4

PLUGGING RECORD					
Operator <b>UNION OIL COMPANY OF CALIFORNIA</b>			Address <b>P.O. BOX 1611 - CASPER, WYOMING 82601</b>		
Federal, State, or Indian Lease Number, or lessor's name if fee lease. <b>14-20-0603-1226</b>		Well No. <b>1-166</b>	Field & Reservoir <b>Wildcat</b>		
Location of Well <b>600' ENL and 984' FWL (NW NW)</b>			Sec-Twp-Rge or Block & Survey <b>Sec. 20; T.6N; R.6W</b>		County <b>Apache</b>
Application to drill this well was filed in name of <b>Union Oil Co. of Calif.</b>		Has this well ever produced oil or gas <b>No</b>	Character of well at completion (initial production): Oil (bbls/day)      Gas (MCF/day)		Dry? <b>Dry Hole</b>
Date plugged: <b>December 10, 1968</b>		Total depth <b>2,800'</b>	Amount well producing when plugged: Oil (bbls/day)      Gas (MCF/day)		Water (bbls/day)
Name of each formation con- taining oil or gas. Indicate which formation open to well- bore at time of plugging		Fluid content of each formation		Depth interval of each formation	
				Size, kind & depth of plugs used Indicate zones squeeze cemented, giving amount cement <b>2550-2750 - 70 sx</b>	
				<b>2275-2375 - 35 sx</b>	
				<b>1275-1375 - 35 sx</b>	
				<b>500-600 - 35 sx</b>	
				<b>275- 300 - 30 sx</b>	
				<b>10 sx plug at surface</b>	
CASING RECORD					
Size pipe	Put in well (ft.)	Pulled out (ft.)	Left in well (ft.)	Give depth and method of parting casing (shot, ripped, etc.)	Packers and shoes
<b>8-5/8</b>	<b>329.56</b>	<b>None</b>	<b>329.56</b>		
Was well filled with mud-laden fluid, according to regulations? <b>Yes</b>				Indicate deepest formation containing fresh water.	
NAMES AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE					
Name		Address		Direction from this well:	
In addition to other information required on this form, if this well was plugged back for use as a fresh water well, give all pertinent details of plugging operations to base of fresh water sand, perforated interval to fresh water sand, name and address of surface owner, and attach letter from surface owner authorizing completion of this well as a water well and agreeing to assume full liability for any subsequent plug- ging which might be required.					
Use reverse side for additional detail.					
CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the <u>District Drilling Supt.</u> of the <u>Union Oil Company of California</u> (company) and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.					
Date <b>12-17-68</b>		Signature 			
Permit No. <b>477</b>			STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION Plugging Record File One Copy Form No. 10		

**CONFIDENTIAL**

# APPLICATION TO ABANDON AND PLUG

FIELD Wildcat  
 OPERATOR UNION OIL COMPANY OF CALIFORNIA ADDRESS P. O. Box 1611 - Casper, Wyoming 82601  
 Federal, State, or Indian Lease Number or Lessor's Name if Fee Lease 14-20-0603-1226 WELL NO. 1-166  
 SURVEY T.6N; R.6W (NW NW) SECTION 20 COUNTY Apache  
 LOCATION 600' FNL and 984' FWL (NW NW)

TYPE OF WELL Dry Hole (Oil, Gas or Dry Hole) TOTAL DEPTH 2,800'  
 ALLOWABLE (If Assigned) \_\_\_\_\_  
 LAST PRODUCTION TEST OIL \_\_\_\_\_ (Bbls.) WATER \_\_\_\_\_ (Bbls.)  
 GAS \_\_\_\_\_ (MCF) DATE OF TEST \_\_\_\_\_  
 PRODUCING HORIZON \_\_\_\_\_ PRODUCING FROM \_\_\_\_\_ TO \_\_\_\_\_

1. COMPLETE CASING RECORD 8-5/8" OD 24# casing (329.56') set at 327.06' with 160 sacks  
Reg. Cement w/ 4% Gel., 2% CaCl<sub>2</sub> plus 10 sacks Reg. Neat Cement.

2. FULL DETAILS OF PROPOSED PLAN OF WORK Set cement plugs as follows: 2,550 - 2,750' -  
70 sacks; 2,275' - 2,375' - 35 sacks; 1,275' - 1,375' - 35 sacks; 500' - 600' - 35 sacks;  
275' - 300' 30 sacks; and 10 sack cement plug at surface. Heavy drilling mud spotted  
between cement plugs. Install Dry Hole Marker. Clean and level location.

Verbal approval received to plug well as described above.

If well is to be abandoned, does proposed work conform with requirements of Rule 202? Yes If not, outline proposed procedure above.

DATE COMMENCING OPERATIONS December 10, 1968

NAME OF PERSON DOING WORK A. E. Frieberg ADDRESS Box 1611 - Casper, Wyoming

CORRESPONDENCE SHOULD BE SENT TO A. T. Mannon, Jr. *A. T. Mannon, Jr.*

District Drilling Supt.

Title

P. O. Box 1611 - Casper, Wyoming 82601

Address

December 13, 1968

Date

Date Approved 12/23/68  
 STATE OF ARIZONA  
 OIL & GAS CONSERVATION COMMISSION  
 By: *John P. ...* 196

Permit No. 477

STATE OF ARIZONA  
 OIL & GAS CONSERVATION COMMISSION  
 Application to Abandon and Plug  
 File Two Copies

Form No. 9

CONFIDENTIAL

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN DUPLICATE\*  
(See other instructions on reverse side)

CONFIDENTIAL

Form approved.  
Budget Bureau No. 42-R355.5.

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input checked="" type="checkbox"/> Other _____		5. LEASE DESIGNATION AND SERIAL NO. <b>14-20-0603-1226</b>	
b. TYPE OF COMPLETION: NEW WELL <input type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other <b>Plug &amp; Abandoned</b>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME <b>Navajo</b>	
2. NAME OF OPERATOR <b>UNION OIL COMPANY OF CALIFORNIA</b>		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR <b>P. O. BOX 1611 - CASPER, WYOMING 82601</b>		8. FARM OR LEASE NAME <b>Navajo Tract 166</b>	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface <b>600' FNL and 984' FNL (NW NW)</b> At top prod. interval reported below At total depth		9. WELL NO. <b>1-166</b>	
14. PERMIT NO. <b>477</b>		10. FIELD AND POOL, OR WILDCAT <b>Wildcat</b>	
DATE ISSUED <b>11-6-68</b>		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA <b>Sec. 20; T.6N; R.6W</b>	
15. DATE SPUNDED <b>11-27-68</b>		12. COUNTY OR PARISH <b>Apache</b>	
16. DATE T.D. REACHED <b>12-7-68</b>		13. STATE <b>Arizona</b>	
17. DATE COMPL. (Ready to prod.)		18. ELEVATIONS (DF, RKB, RT, OR, ETC.)* <b>7561 GR 7572 KB</b>	
20. TOTAL DEPTH, MD & TVD <b>2,800'</b>		19. ELEV. CASINGHEAD	
21. PLUG, BACK T.D., MD & TVD		23. INTERVALS DRILLED BY <b>0 - 2,800'</b>	
22. IF MULTIPLE COMPL., HOW MANY*		24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*	
25. WAS DIRECTIONAL SURVEY MADE <b>No</b>		26. TYPE ELECTRIC AND OTHER LOGS RUN <b>Compensated Formation Density - Sidewall Neutron - Dual Induction Laterolog</b>	
27. WAS WELL CORED <b>No</b>		28. CASING RECORD (Report all strings set in well)	
CASING SIZE <b>8-5/8</b>		WEIGHT, LB./FT. <b>24</b>	
DEPTH SET (MD) <b>327.06'</b>		HOLE SIZE <b>12-1/4</b>	
CEMENTING RECORD <b>170 sacks</b>		AMOUNT PULLED <b>0-</b>	
29. LINER RECORD		30. TUBING RECORD	
SIZE <b>8-5/8</b>		SIZE <b>8-5/8</b>	
TOP (MD) <b>327.06'</b>		DEPTH SET (MD) <b>327.06'</b>	
BOTTOM (MD) <b>327.06'</b>		PACKER SET (MD) <b>327.06'</b>	
SACKS CEMENT* <b>170</b>		SCREEN (MD) <b>327.06'</b>	
31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
33. PRODUCTION		34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)	
DATE FIRST PRODUCTION		TEST WITNESSED BY	
PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)		35. LIST OF ATTACHMENTS	
WELL STATUS (Producing or shut-in) <b>Plugged &amp; Abandoned</b>		36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.	
DATE OF TEST		ORIGINAL SIGNED BY <b>A. T. MANNON JR.</b>	
HOURS TESTED		SIGNED <b>A. T. MANNON, JR.</b>	
CHOKE SIZE		TITLE <b>District Drilling Supt.</b>	
PROD'N. FOR TEST PERIOD		DATE <b>12-13-68</b>	
OIL—BBL.		* (See Instructions and Spaces for Additional Data on Reverse Side)	
GAS—MCF.		CONFIDENTIAL	
WATER—BBL.			
OIL GRAVITY-API (CORR.)			
FLOW, TUBING PRESS.			
CASING PRESSURE			
CALCULATED 24-HOUR RATE			
OIL—BBL.			
GAS—MCF.			
WATER—BBL.			
OIL GRAVITY-API (CORR.)			

\* (See Instructions and Spaces for Additional Data on Reverse Side)



**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33 below regarding separate reports for separate completions.

If not filled prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form; see item 35.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

**Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29:** "Sacks Cement". Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

871.233

Form 9-331  
(May 1963)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIP (TE)  
(Other instruction re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

14-20-0603-1226

6. IF INDIAN, ALLOTTEE OR TRUST NAME

Navajo

7. UNIT AGREEMENT NAME

Navajo Trust 166

8. FARM OR LEASE NAME

1-166

9. WELL NO.

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC. T. R. OR BLK. AND

Sec. 20, T. 6N, R. 6W

12. COUNTY OR PARISH, STATE

Apache

Arizona

1. OIL ☐ GAS ☐ OTHER ☒ **Drilling Well**

2. NAME OF OPERATOR  
**UNION OIL COMPANY OF CALIFORNIA**

3. ADDRESS OF OPERATOR  
**P. O. BOX 1611 - CASPER, WYOMING 82601**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.  
See also space 17 below.)  
At surface  
**600' FNL and 984' FWL (NW NW)**

14. PERMIT NO.  
**477**

**11/6/68**

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
**7,361' GR 7,572' KB**

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

(Note: Report results of multiple Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting and proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and bottom hole depth.)

**2,800' Total Depth**

**Dry Hole - Plugged and Abandoned as follows:**

**2,550 - 2,750' - 200' - 70 sack cement plug**

**2,275 - 2,375' - 100' - 35 sack cement plug**

**1,275 - 1,375' - 100' - 35 sack cement plug**

**300 - 600' - 100' - 35 sack cement plug**

**275 - 300' - 25' - 30 sack cement plug**

**10 sack cement plug at surface. Installed 4" Pipe Dry Hole Marker.**

**Plugged and Abandoned as of 9 A.M. December 10, 1968.**

**Final.**

18. I hereby certify that the foregoing is true and correct

SIGNED **A. T. MANNON JR.**

TITLE **District Drilling Supt.**

(This space for Federal or State office use)

APPROVED BY  
CONDITIONS OF APPROVAL, IF ANY:

TITLE

\*See Instructions on Reverse Side

**CONFIDENTIAL**

477

Form 9-331  
(May 1963)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.  
**14-20-0403-1226**

6. IF INDIAN, ALLOTTEE OR TRUST NAME  
**Navajo**

7. UNIT AGREEMENT NAME  
**Navajo Tract 166**

8. FARM OR LEASE NAME  
**1-166**

9. WELL NO.  
**1-166**

10. FIELD AND POOL, OR WILDCAT  
**Wildcat**

11. SEC. T. R. OR BLK. AND  
S. W. 1/4, 23.6N 10.6E 16E

12. COUNTY OR PARISH  
**Apache**

13. STATE  
**Arizona**

SUNDRY NOTICES AND REPORTS ON WELLS  
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL ☐ GAS WELL ☐ OTHER **Drilling Well**

2. NAME OF OPERATOR

**UNION OIL COMPANY OF CALIFORNIA**

3. ADDRESS OF OPERATOR

**P. O. BOX 1611 - CASPER, WYOMING 82601**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

**600' FNL and 984' FNL (NW NW)**

14. PERMIT NO.

**477**

**11/6/68**

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

**7,561' GR**

**7,572' KB**

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

(Other) ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON\* ☒

CHANGE PLANS ☐

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☐

(Other) ☐

SUBSEQUENT REPORT

(NOTE: Report results of multiple completion or recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

**2,800' Total Depth**

**Dry Hole - Propose to plug and abandon as follows:**

**2,550 - 2,750' - 70 sack cement plug**

**2,275 - 2,375' - 35 sack cement plug**

**1,275 - 1,375' - 35 sack cement plug**

**500 - 600' - 35 sack cement plug**

**275 - 300' - 30 sack cement plug**

**10 sack cement plug at surface. Install Dry Hole Marker.**

**Verbal approval received from the U.S.G.S. office in Roswell, New Mexico.**

18. I hereby certify that the foregoing is true and correct

SIGNED **A. T. LEANNON JR.**  
**A. T. Leannon, Jr.**

TITLE **District Drilling Supt.**

(This space for Federal or State office use)

APPROVED BY  
CONDITIONS OF APPROVAL, IF ANY:

TITLE

\*See Instructions on Reverse Side

CONFIDENTIAL

9 477

Form 9-331  
(May 1963)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIP (TE\*)  
(Other instruction  
verse side)

Form approved  
Budget Bureau No. 42-R1424

5. LEASE, DESIGNATION AND SERIAL NO.

14-20-0603-1226

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

Navajo Tract 166

8. FARM OR LEASE NAME

1-166

10. FIELD AND POOL, OR WILDCAT

Willapa

11. SEC. 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

Sec. 20; T. 6N; R. 6E

12. COUNTY OR PARISH 13. STATE

Apache Arizona

1. OIL ☐ GAS ☐ OTHER ☒ **Drilling Well**

2. NAME OF OPERATOR  
**UNION OIL COMPANY OF CALIFORNIA**

3. ADDRESS OF OPERATOR  
**P. O. BOX 1611 - CASPER, WYOMING 82601**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.  
See also space 17 below.)  
At surface

**600' FHL and 984' FWL (NW NW)**

14. PERMIT NO. 15. ELEVATIONS (Show whether DF, ET, GR, etc.)

**477 11/6/68 7,561' GR 7,572' KB**

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

**Supplemental Well History**

(NOTE: Report results of multiple completion on well completion or recompletion report and log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

**Spudded 1 A.M. November 27, 1968.**

**Drilled 12-1/4" hole to 330'. Ran 10 jts. (329.56') 8-5/8" 24# Casing set @ 327' with 160 sacks Reg. Cement w/ 4% Gel.; 2% CaCl<sub>2</sub> plus 10 sacks Reg. Neat Cement. Cement circulated. Job Complete 7 A.M. November 28, 1968. W.O.C.**

**Drilled 7-7/8" hole to 2,800' Total Depth. Ran Electric Logs.**

**DST #1 - 2,640 - 2,675' - Packer failed.**

**DST #2 - 2,644 - 2,674' - TO 10 min.; SI 30 min.; TO 30 min.; SI 60 min. Tool opened**

**with weak blow, increased to strong in 1 min. and continued for 10 min. Second open**

**with strong blow for 30 min.. IHP 1232; IFF 26-277; IHP 743; IFF 26-277; IFF 225.**

**Recovered 1,220', incl. 120' Muddy salt water and 1,100' salt water.**

**DST #3 - 447 - 510' - TO 10 min., opened with very weak blow, dead in 1 min.; SI 20 min.;**

**TO 10 min., no blow; SI 20 min. - No Recovery. IHP 178; IFF 178.**

**Dry Hole - Preparing to Plug and Abandon.**

18. I hereby certify that the foregoing is true and correct

SIGNED **A. T. MANNON, JR.**

TITLE **District Drilling Dept.**

(This space for Federal or State office use)

APPROVED BY  
CONDITIONS OF APPROVAL, IF ANY:

TITLE

\*See Instructions on Reverse Side

**CONFIDENTIAL**

12-9-68

Teleph call from Al Freiberg, engineer, Union Oil

Re: Union #1-166 Navajo  
NW NW 20-6N-6W NSM, Apache County  
Permit 477

Tops:

Chinle	- surface
Shinarump	420'
DeChelly	543 - wet, fresh water
Supai	1320
Hermosa	1821
Akah	2042
Barker Creek	2172
Red Wall	2325
Ouray	2418
Elbert	2428
McCracken	2636
Aneth	2680
Granite	2754
T D	2800

**CONFIDENTIAL**

- Two DSTs:
- (1) in McCracken 2644-2674  
recovered 1220' fluid in drill pipe, of which  
120' was muddy salt water and 1100' of clear  
salt water. Specific gravity 8.55 lbs per gal.,  
or 3.5%. Analyzed 36,600 ppm Chloride.
  - (2) in Shinarump 447-510'  
No recovery. Tool open 10 minutes. Very weak  
blow. Died to zero in 4 - 5 minutes. Tight  
formation. Log indicated good porosity .  
From DST 50% water and 50% void.

Plugs as follows:

2550 - 2750  
2275 - 2375  
1275 = ;385  
500 - 600  
275 - 350 (Surface casing set at 327 K.B.)  
10 sax cement on top, marker

Verbally approved by U S G S. Gave our verbal approval this date.

J.B.

MEMO: FILE

FROM: J. SCURLOCK

12-6-68

Re: Union #1-166 Navajo  
T6N, R6W, NSM  
Sec. 20: NW/4 NW/4  
Apache County, Arizona  
Permit #477

Telephoned this date from Union. They are drilling at 2598. Proposed depth about 2900. This is a basement test. May be plugging this weekend. Advised them to clear plugging program with Phil McGrath before calling me or Mr. Bannister.

11 477

12-3-68

Union

pipe has been  
set  $8\frac{5}{8}$ " @ 327' w/  
tapping @ 1974'  
and 12-2-68

Loffland Drilling

7561 ga elev.

11-29-68 JRS

@/ Bustaffson = (came in office)  
Union Spudded 11-27-68  
Contractor Offland Bros.  
(Right Hole)

4M

12



Form 9-331C  
(May 1963)

SUBMIT IN DUPLICATE\*  
(Other instructions on  
reverse side)

Form approved.  
Budget Bureau No. 42-R1425.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

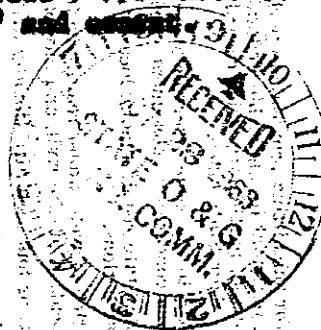
1a. TYPE OF WORK <b>DRILL <input checked="" type="checkbox"/></b> <b>DEEPEN <input type="checkbox"/></b> <b>PLUG BACK <input type="checkbox"/></b>		5. LEASE DESIGNATION AND SERIAL NO. <b>14-20-0693-1226</b>	
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <b>Wildcat</b> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME <b>Navajo</b>	
2. NAME OF OPERATOR <b>UNION OIL COMPANY OF CALIFORNIA</b>		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR <b>P. O. BOX 1611 - CASPER, WYOMING 82601</b>		8. FARM OR LEASE NAME <b>Navajo Tract #166</b>	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface <b>600 FNL and 984 FNL (NW NW)</b> At proposed prod. zone		9. WELL NO. <b>1-166</b>	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* <b>Approx. 18 miles southeast of Lukachukai, Arizona</b>		10. FIELD AND POOL, OR WILDCAT <b>Wildcat</b>	
10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) <b>600' FNL</b>	16. NO. OF ACRES IN LEASE <b>7,040</b>	11. SEC. T., R., M., OR BLK. AND SURVEY OR AREA <b>Sec. 20; T.6N R.6W</b>	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	19. PROPOSED DEPTH <b>2,675'</b>	12. COUNTY OR PARISH 13. STATE <b>Apache Arizona</b>	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>7,561' GR</b>		20. ROTARY OR CABLE TOOLS <b>Rotary</b>	
22. APPROX. DATE WORK WILL START* <b>November 4, 1968</b>			
23. PROPOSED CASING AND CEMENTING PROGRAM			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH
<b>12-1/4</b>	<b>8-5/8</b>	<b>24</b>	<b>300</b>
<b>7-7/8</b>	<b>5-1/2</b>	<b>15.5</b>	<b>2,675</b>
			QUANTITY OF CEMENT <b>200</b> <b>100</b>

Union Oil Company of California proposes to drill a 2,675' exploratory well to test the Hermosa and McCracken Formations.

Drill 12-1/4" hole to 300', cement 8-5/8" casing to surface. Drill 7-7/8" hole to 2,675', log and test. If productive set 5-1/2" casing at 2,675' and cement.

Drill Stem Test in Hermosa and McCracken Formations.

Double ram pressure operated S.O.P.'s will be used.



IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. ORIGINAL SIGNED BY <b>A. T. MANNON JR.</b>		TITLE <b>District Drilling Supt.</b>		DATE <b>10-25-68</b>	
SIGNED <b>A. T. MANNON, JR.</b>		TITLE		DATE	
(This space for Federal or State office use)					
PERMIT NO. <b>4777</b>		APPROVAL DATE			
APPROVED BY		TITLE		DATE	
CONDITIONS OF APPROVAL, IF ANY:					

\*See Instructions On Reverse Side

14

# APPLICATION FOR PERMIT TO DRILL OR RE-ENTER

APPLICATION TO DRILL ☒

RE-ENTER OLD WELL ☐

UNION OIL COMPANY OF CALIFORNIA

NAME OF COMPANY OR OPERATOR

P.O. BOX 1611 CASPER WYOMING 82601  
Address City State

Drilling Contractor

Address

## DESCRIPTION OF WELL AND LEASE

Federal, State or Indian Lease Number, or if fee lease, name of lessor: <b>14-20-0603-1226 Navajo Tract 166</b>	Well number <b>1-166</b>	Elevation (ground) <b>7,561</b>
Nearest distance from proposed location to property or lease line: <b>600 FNL</b> feet	Distance from proposed location to nearest drilling, completed or applied—for well on the same lease: <b>None</b> feet	
Number of acres in lease: <b>7,040</b>	Number of wells on lease, including this well, completed in or drilling to this reservoir: <b>(1) One</b>	
If lease, purchased with one or more wells drilled, from whom purchased: Name Address		

Well location (give footage from section lines) <b>600 FNL and 984 FWL</b>	Section—township—range or block and survey <b>Sec. 20; T.6N; R.6W 15M</b>	Dedication: (Comply with Rule 105) <b>W/2 NW/4</b>
Field and reservoir (if wildcat, so state) <b>Wildcat</b>	County <b>Apache</b>	

Distance, in miles, and direction from nearest town or post office <b>Approx. 18 miles southeast of Lukahukai, Arizona</b>		
Proposed depth: <b>2,675</b>	Rotary or cable tools <b>Rotary</b>	Approx. date work will start <b>November 4, 1968</b>
Bond Status Amount	Organization Report <input checked="" type="checkbox"/> On file Yes Or attached	Filing Fee of \$35.00 Attached Yes

Remarks: Drill 12-1/4" hole to 300', cement 8-5/8 casing to surface. Drill 7-7/8" hole to 2,675' T.D. Drill Stem Test Hermosa and McCracken Formations. If productive set 5-1/2" casing @ 2,675' and cement. Perforate and complete.

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the District Drilling Supt. of the Union Oil Company of California (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Signature A. T. Mannon, Jr.

Date October 25, 1968

Permit Number: 977

Approval Date: 11/6/68

Approved By: John L. Mannon

Notice: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.

Form No. 3

STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION  
Application to Drill or Re-enter  
File Two Copies

(Complete Reverse Side)

1. Operator shall outline the dedicated acreage for both oil and gas wells on the plat.
2. A registered professional engineer or land surveyor registered in the State of Arizona or approved by the Commission shall show on the plat the location of the well and certify this information in the space provided.
3. All distances shown on the plat must be from the outer boundaries of the Section.
4. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES XX NO \_\_\_\_\_
5. If the answer to question four is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES \_\_\_\_\_ NO \_\_\_\_\_ If answer is "yes," Type of Consolidation \_\_\_\_\_
6. If the answer to question four is "no," list all the owners and their respective interests below:

<b>Owner</b> Union Oil Company of California P.O. Box 1611 - Casper, Wyoming	<b>Land Description</b> Navajo 14-20-0603-1226 Tract 166 Sec. 20; T.6N; R.6W
--	--

See Attached Plat			

**CERTIFICATION**

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

**Name** A. Mannings

**Position** District Drilling Supt.

**Company** Union Oil Co. of Calif.

**Date** October 25, 1968

I hereby certify that the well location shown on the plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

**Date Surveyed** October 21, 1968

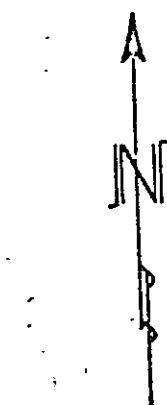
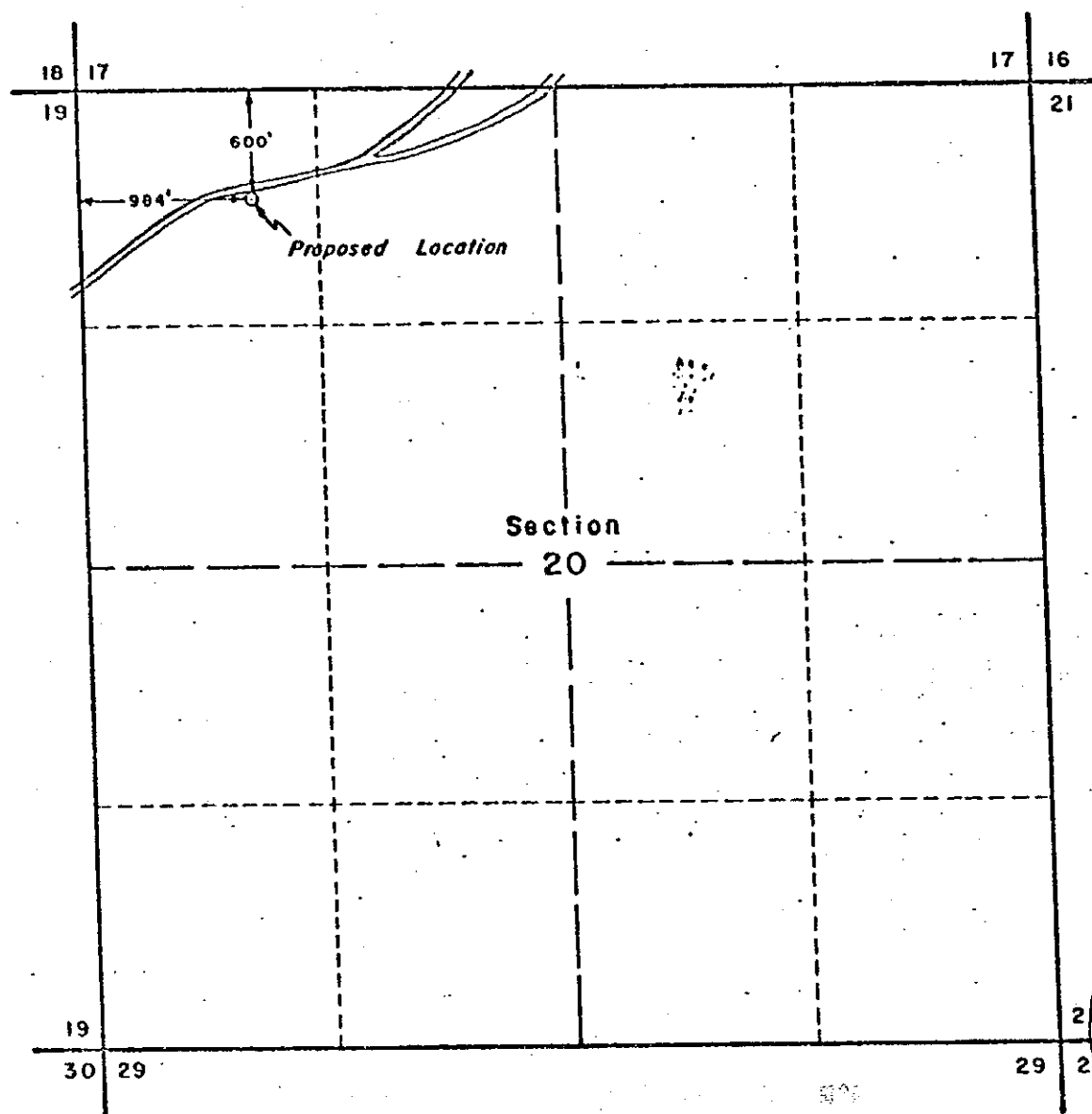
**Registered Professional Engineer and/or Land Surveyor**

Arizona #5313

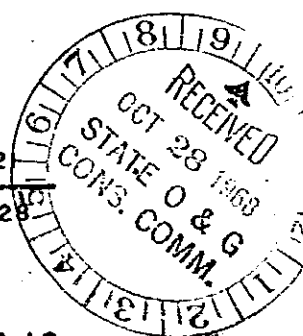
**Certificate No.**

**PROPOSED CASING PROGRAM**

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
8-5/8	24	J-55	0	300	0 - 300'	200
5-1/2	15.5	J-55	0	2,675		100



Scale: 1" = 1000'



**WELL LOCATION: UNION of CALIFORNIA — NO. 1-166 NAVAJO**

Located 600 feet South of the North line and 984 feet East of the West line of Section 20  
 Township 6 North Range 6 West Navajo Special Meridian  
 Apache Co., Arizona  
 Existing ground elevation determined at 7561 feet based on U.S.G.S. datum.

I hereby certify the above plat represents a survey made under my supervision and that it is accurate to the best of my knowledge and belief.

*Frederick H. Reed*  
 FREDERICK H. REED  
 Registered Land Surveyor  
 State of Arizona # 5313



UNION OIL COMPANY  
 Durango, Colorado

WELL LOCATION PLAT  
 SEC. 20, T.6N., R.6W., N.S.M.  
 Apache Co., Arizona

CLARK-REED & ASSOC.  
 Durango, Colorado

DATE Oct. 17, 1968  
 FILE NO. 68066



## PERMIT TO DRILL

This constitutes the permission and authority from the

OIL AND GAS CONSERVATION COMMISSION,  
STATE OF ARIZONA,

To: UNION OIL COMPANY OF CALIFORNIA  
(OPERATOR)

to drill a well to be known as

UNION #1-166 NAVAJO  
(WELL NAME)

located 600 FWL - 984 FWL

Section 20 Township 6N Range 6W, Apache County, Arizona.

The W/2 NW/4 of said  
Section, Township and Range is dedicated to this well.

Said well is to be drilled substantially as outlined in the attached Application and must be drilled  
in full compliance with all applicable laws, statutes, rules and regulations of the State of Arizona.

Issued this 6th day of November, 19 68.

OIL AND GAS CONSERVATION COMMISSION

By John R. [Signature]  
EXECUTIVE SECRETARY

PERMIT N<sup>o</sup> 477

RECEIPT NO. 9559

State of Arizona  
Oil & Gas Conservation Commission  
Permit to Drill

FORM NO. 27

API 02-001-20087  
SAMPLES ARE REQUIRED

September 23, 1970

St. Paul Fire & Marine Insurance Company  
Moore, Case, Lyman & Hubbard, Inc.,  
175 West Jackson Boulevard  
Chicago, Illinois 60604

Re: Union #1-166 Navajo  
NW/4 NW/4 Sec. 20-T36N-R6W  
Apache County  
Our File #477

Union #1-11 Navajo  
SE/4 SW/4 Sec. 11-T36N-R29E  
Apache County  
Our File #519

Union #1-4 Navajo  
SE/4 SE/4 Sec. 4-T36N-R29E  
Apache County  
Our File #521

Union #1-17 Navajo  
SW/4 SW/4 Sec. 17-T36N-R29E  
Apache County  
Our File #522

Bond No. 400CF 7946/15194

Gentlemen:

Records of this office indicate that Union Oil Company has fulfilled their obligations to the State of Arizona as to the requirements pertaining to the above captioned wells. We authorize termination of the subject bond effective October 30, 1970.

Very truly yours,

W. E. Allen  
Director, Enforcement Section

WEA:jg  
cc: Union Oil Company  
Denver, Colorado

Operator UNION OIL COMPANY OF CALIFORNIA  
CO.  
Bond Company ST. PAUL FIRE & MARINE INSURANCE Amount \$25,000  
Bond No. 400CF 7948/15194 Date Approved 11-6-68

Permits covered by this bond:

477.

~~421~~ 521

519.

527

**CANCELLED**  
DATE 10-30-70

SEE file  
#477 for  
the original  
copy of the  
bond.

# PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS

Bond Serial No. 400CF 7948/15194

That we: UNION OIL COMPANY OF CALIFORNIA

of the County of LOS ANGELES in the State of CALIFORNIA

as principal, and ST. PAUL FIRE AND MARINE INSURANCE COMPANY

of St. Paul, Minnesota

AUTHORIZED TO DO BUSINESS WITHIN the State of Arizona.

as surety, are held and firmly bound unto the State of Arizona and the Oil and Gas Conservation Commission, hereinafter referred to as the "Commission", in the penal sum of \$25,000.00 lawful money of the United States, for which payment, well and truly to be made, we bind ourselves, and each of us, and each of our heirs, executors, administrators or successors, and assigns jointly and severally, firmly by these presents.

The conditions of this obligation are that, whereas the above bounden principal proposes to drill a well or wells for oil, gas or stratigraphic purposes in and upon the following described land situated within the State, to-wit:

## BLANKET BOND

(May be used as blanket bond or for single well)

NOW, THEREFORE, if the above bounden principal shall comply with all the provisions of the Laws of this State and the rules, regulations and orders of the Commission, especially with reference to the requirements of A.R.S. § 27-516, providing for the proper drilling, casing and plugging of said well or wells, and filing with the Oil and Gas Conservation Commission all notices and records required by said Commission, then in the event said well or wells do not produce oil or gas in commercial quantities, or cease to produce oil or gas in commercial quantities, this obligation is void; otherwise it shall remain in full force and effect.

Whenever the principal shall be, and declared by the Oil and Gas Conservation Commission in violation of the Laws of this State and the rules, regulations and orders of the Commission, the surety shall promptly:

1. Remedy the violation by its own efforts, or
2. Obtain a bid or bids for submission to the Commission to remedy the violation, and upon determination by the Commission and the Surety of the lowest responsible bidder, arrange for a contract between such bidder and the Commission, and make available as work progresses sufficient funds to pay the cost of remedying the violation; but not exceeding, including other costs and damages for which the surety may be liable hereunder, the amount set forth in the first paragraph hereof.

Liability under this bond may not be terminated without written permission of this Commission.

WITNESS our hands and seals, this 30th day of OCTOBER, 1968

UNION OIL COMPANY OF CALIFORNIA

By: Ray Brunster  
Asst. Sec.

By: W. B. Bolinger VICE PRESIDENT  
Principal

WITNESS our hands and seals this 30th day of October, 1968

ST. PAUL FIRE AND MARINE INSURANCE COMPANY

By: Robert L. Gray Surety Attorney-in-Fact  
Thomas D. Smith

Surety, Resident Arizona Agent  
If issued in a state other than Arizona)

(If the principal is a corporation, the bond should be executed by its duly authorized officers, with the seal of the corporation affixed. When principal or surety executes this bond by agent, power of attorney or other evidence of authority must accompany the bond.)

Approved  
Date

11/6/68

9-

STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION

By:

John W. Bannister  
Permit No. 477

STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION

Bond

File Two Copies

Form No. 2

FORM  
APPROVED  
OK



Class 1

(A Capital Stock Company)

**CERTIFIED COPY OF POWER OF ATTORNEY**  
Original on File at Home Office of Company. See Certification.

**FIDELITY AND SURETY  
DEPARTMENT**

**ST. PAUL  
FIRE and MARINE  
Insurance Company**  
HOME OFFICE: ST. PAUL, MINNESOTA

KNOW ALL MEN BY THESE PRESENTS: That the St. Paul Fire and Marine Insurance Company, a corporation organized and existing under the laws of the State of Minnesota, and having its principal office in the City of Saint Paul, Minnesota, does hereby constitute and appoint

Arthur A. Noll, Donald Cleveland, Mary Meyer, Robert L. Gray, individually,  
Chicago, Illinois

its true and lawful attorney(s)-in-fact to execute, seal and deliver for and on its behalf as surety, any and all bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof, which are or may be allowed, required or permitted by law, statute, rule, regulation, contract or otherwise, and the execution of such instrument(s) in pursuance of these presents, shall be as binding upon the said St. Paul Fire and Marine Insurance Company, as fully and amply, to all intents and purposes, as if the same had been duly executed and acknowledged by its regularly elected officers at its principal office.

This Power of Attorney is executed, and may be certified to and may be revoked, pursuant to and by authority of Article III, -Section 5(C), of the By-Laws adopted by the Board of Directors of the ST. PAUL FIRE AND MARINE INSURANCE COMPANY at a meeting called and held on the 3rd day of August, 1966, of which the following is a true transcript of said Section 5(C).

"The President or any Vice President, Assistant Vice President, Resident Vice President, Secretary or Resident Secretary, shall have power and authority

- (1) To appoint Attorneys-in-fact, and to authorize them to execute on behalf of the Company, and attach the Seal of the Company thereto, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof, and
- (2) To appoint Special Attorneys-in-fact, who are hereby authorized to certify to copies of any power-of-attorney issued in pursuance of this section and/or any of the By-Laws of the Company, and
- (3) To remove, at any time, any such Attorney-in-fact or Special Attorney-in-fact and revoke the authority given him."

Further, this Power of Attorney is signed and sealed by facsimile pursuant to resolution of the Board of Directors of said Company adopted at a meeting duly called and held on the 6th day of May, 1959, of which the following is a true excerpt:

"Now therefore the signatures of such officers and the seal of the Company may be affixed to any such power of attorney or any certificate relating thereto by facsimile, and any such power of attorney or certificate bearing such facsimile signatures or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by facsimile signatures and facsimile seal shall be valid and binding upon the Company in the future with respect to any bond or undertaking to which it is attached."

IN TESTIMONY WHEREOF, the St. Paul Fire and Marine Insurance Company has caused this

instrument to be signed and its corporate seal to be affixed by its authorized officer, this 2nd  
day of January A. D. 1968



STATE OF Illinois } ss.  
COUNTY OF Cook }

On this 30th day of October 1968, before me, a Notary Public, within and for said County and State, personally appeared Robert L. Gray to me personally known, and known to me to be the Attorney-in-Fact of and for the ST. PAUL FIRE AND MARINE INSURANCE COMPANY, Saint Paul, Minnesota, a corporation, created, organized and existing under and by virtue of the laws of the State of Minnesota, upon oath did say that the corporate seal affixed to the attached instrument is the seal of the said Company; that the seal was affixed and the said instrument was executed by the authority of its Board of Directors; and he did also acknowledge that he executed the said instrument as the free act and deed of said Company.

Acknowledgment of Attorney-in-Fact

*Viola A. Farnell* Notary Public.

My Commission expires Nov. 13, 1971

11072 AAF 1-68 40M Ed. 2-56 Printed in U. S. A.

**CERTIFICATION**

I, the undersigned officer of the St. Paul Fire and Marine Insurance Company, do hereby certify that I have compared the foregoing copy of the Power of Attorney and affidavit, and the copy of the Section of the By-Laws of said Company as set forth in said Power of Attorney, with the ORIGINALS ON FILE IN THE HOME OFFICE OF SAID COMPANY, and that the same are correct transcripts thereof, and of the whole of the said originals, and that the said Power of Attorney has not been revoked and is now in full force and effect.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 30th day of October 1968

*Larry W. Crane*  
Assistant Secretary.

\*Unlimited as to character and amount.

10870 CPS Rev. 11-67 Printed in U. S. A.

Class 1

(A Capital Stock Company)

**CERTIFIED COPY OF POWER OF ATTORNEY**  
Original on File at Home Office of Company. See Certification.

**FIDELITY AND SURETY  
DEPARTMENT**

**ST. PAUL  
FIRE and MARINE  
Insurance Company**  
HOME OFFICE: ST. PAUL, MINNESOTA

KNOW ALL MEN BY THESE PRESENTS: That the St. Paul Fire and Marine Insurance Company, a corporation organized and existing under the laws of the State of Minnesota, and having its principal office in the City of Saint Paul, Minnesota, does hereby constitute and appoint

Arthur A. Noll, Donald Cleveland, Mary Meyer, Robert L. Gray, individually,  
Chicago, Illinois

its true and lawful attorney(s)-in-fact to execute, seal and deliver for and on its behalf as surety, any and all bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof, which are or may be allowed, required or permitted by law, statute, rule, regulation, contract or otherwise, and the execution of such instrument(s) in pursuance of these presents, shall be as binding upon the said St. Paul Fire and Marine Insurance Company, as fully and amply, to all intents and purposes, as if the same had been duly executed and acknowledged by its regularly elected officers at its principal office.

This Power of Attorney is executed, and may be certified to and may be revoked, pursuant to and by authority of Article III, -Section 5(C), of the By-Laws adopted by the Board of Directors of the ST. PAUL FIRE AND MARINE INSURANCE COMPANY at a meeting called and held on the 3rd day of August, 1966, of which the following is a true transcript of said Section 5(C).

"The President or any Vice President, Assistant Vice President, Resident Vice President, Secretary or Resident Secretary, shall have power and authority

- (1) To appoint Attorneys-in-fact, and to authorize them to execute on behalf of the Company, and attach the Seal of the Company thereto, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof, and
- (2) To appoint Special Attorneys-in-fact, who are hereby authorized to certify to copies of any power-of-attorney issued in pursuance of this section and/or any of the By-Laws of the Company, and
- (3) To remove, at any time, any such Attorney-in-fact or Special Attorney-in-fact and revoke the authority given him."

Further, this Power of Attorney is signed and sealed by facsimile pursuant to resolution of the Board of Directors of said Company adopted at a meeting duly called and held on the 6th day of May, 1959, of which the following is a true excerpt:

"Now therefore the signatures of such officers and the seal of the Company may be affixed to any such power of attorney or any certificate relating thereto by facsimile, and any such power of attorney or certificate bearing such facsimile signatures or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by facsimile signatures and facsimile seal shall be valid and binding upon the Company in the future with respect to any bond or undertaking to which it is attached."

IN TESTIMONY WHEREOF, the St. Paul Fire and Marine Insurance Company has caused this

instrument to be signed and its corporate seal to be affixed by its authorized officer, this **2nd**  
day of **January** A. D. 1968

ST. PAUL FIRE AND MARINE INSURANCE COMPANY



STATE OF MINNESOTA } ss.  
County of Ramsey

*W. H. H. H.*  
Vice President.

On this **2nd** day of **January** 1968, before me came the individual who executed the preceding instrument, to me personally known, and, being by me duly sworn, said that he is the therein described and authorized officer of the St. Paul Fire and Marine Insurance Company; that the seal affixed to said instrument is the Corporate Seal of said Company; that the said Corporate Seal and his signature were duly affixed by order of the Board of Directors of said Company.



IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my Official Seal, at the City of Saint Paul, Minnesota, the day and year first above written.

*C. L. Jaeger*

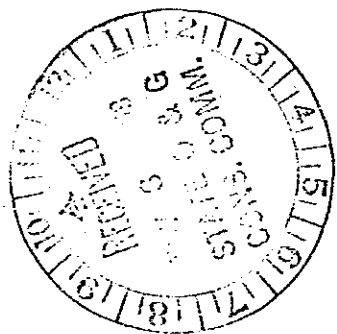
C. L. JAEGER  
Notary Public, Ramsey County, Minn.  
My Commission Expires June 2, 1974.

**CERTIFICATION**

I, the undersigned officer of the St. Paul Fire and Marine Insurance Company, do hereby certify that I have compared the foregoing copy of the Power of Attorney and affidavit, and the copy of the Section of the By-Laws of said Company as set forth in said Power of Attorney, with the ORIGINALS ON FILE IN THE HOME OFFICE OF SAID COMPANY, and that the same are correct transcripts thereof, and of the whole of the said originals, and that the said Power of Attorney has not been revoked and is now in full force and effect.

IN TESTIMONY WHEREOF, I have hereunto set my hand this **30th** day of **October** 1968

*Barney W. Crane*  
Assistant Secretary.



Union Oil and Gas Division: Northern Region  
Union Oil Company of California  
1860 Lincoln Street, Denver, Colorado 80203  
Telephone (303) 266-3331



Joseph L. Wilson  
Manager of Lands

September 21, 1970

Oil and Gas Conservation Commission  
State of Arizona  
1624 West Adams  
Phoenix, Arizona

Attention: Mr. John Bannister

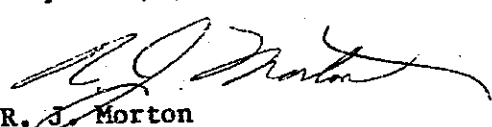
Re: Bond No. 400CF 7948/15194  
Union Oil Company of California,  
Principal

Gentlemen:

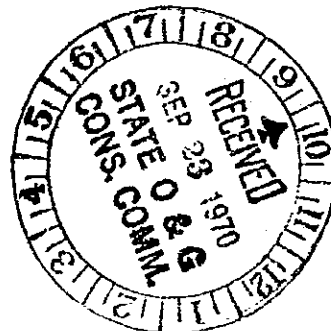
Reference is made to the subject bond, xerox copy attached, which, according to our records, expires on October 30, 1970. It is our desire to terminate this bond effective with the October 30 expiration. Accordingly, we shall appreciate your supplying the surety, St. Paul Fire & Marine Insurance Company, through their Chicago Agent, Moore, Case, Lyman & Hubbard, Inc., 175 West Jackson Boulevard, Chicago, Illinois, 60604 with an appropriate release of this bond, supplying this office with a copy of your release.

Thank you very much.

Very truly yours,

  
R. J. Morton  
Supervisor of Leases

RJM:kh  
Enclosure



PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS

Bond Serial No. 400CF 7948/15194

That we: UNION OIL COMPANY OF CALIFORNIA

of the County of LOS ANGELES in the State of CALIFORNIA

as principal, and ST. PAUL FIRE AND MARINE INSURANCE COMPANY

of St. Paul, Minnesota

AUTHORIZED TO DO BUSINESS WITHIN the State of Arizona.

as surety, are held and firmly bound unto the State of Arizona and the Oil and Gas Conservation Commission, hereinafter referred to as the "Commission", in the penal sum of \$25,000.00 lawful money of the United States, for which payment, well and truly to be made, we bind ourselves, and each of us, and each of our heirs, executors, administrators or successors, and assigns jointly and severally, firmly by these presents.

The conditions of this obligation are that, whereas the above bounden principal proposes to drill a well or wells for oil, gas or stratigraphic purposes in and upon the following described land situated within the State, to-wit:

BLANKET BOND

(May be used as blanket bond or for single well)

NOW, THEREFORE, if the above bounden principal shall comply with all the provisions of the Laws of this State and the rules, regulations and orders of the Commission, especially with reference to the requirements of A.R.S. § 27-516, providing for the proper drilling, casing and plugging of said well or wells, and filing with the Oil and Gas Conservation Commission all notices and records required by said Commission, then in the event said well or wells do not produce oil or gas in commercial quantities, or cease to produce oil or gas in commercial quantities, this obligation is void; otherwise it shall remain in full force and effect.

Whenever the principal shall be, and declared by the Oil and Gas Conservation Commission in violation of the Laws of this State and the rules, regulations and orders of the Commission, the surety shall promptly:

1. Remedy the violation by its own efforts, or
2. Obtain a bid or bids for submission to the Commission to remedy the violation, and upon determination by the Commission and the Surety of the lowest responsible bidder, arrange for a contract between such bidder and the Commission, and make available as work progresses sufficient funds to pay the cost of remedying the violation; but not exceeding, including other costs and damages for which the surety may be liable hereunder, the amount set forth in the first paragraph hereof.

Liability under this bond may not be terminated without written permission of this Commission.

WITNESS our hands and seals, this 30th day of OCTOBER, 1968

UNION OIL COMPANY OF CALIFORNIA

By: *Ray A. Bryant*  
ASS. SGT.

By: *W. B. Bolinger*  
Principal VICE PRESIDENT

WITNESS our hands and seals this 30th day of October, 1968

ST. PAUL FIRE AND MARINE INSURANCE COMPANY

By: *Robert L. Gray*  
Robert L. Gray Surety Attorney-in-Fact

Surety, Resident Arizona Agent  
If issued in a state other than Arizona)

(If the principal is a corporation, the bond should be executed by its duly authorized officers, with the seal of the corporation affixed. When principal or surety executes this bond by agent, power of attorney or other evidence of authority must accompany the bond.)

Approved Date: 11/6/68  
STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION  
By: *John S. Bannister*  
477  
Permit No. \_\_\_\_\_

STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION  
Bond  
File Two Copies  
Form No. 2  
RECEIVED  
OCT 23 1968  
OIL & GAS CONSERVATION COMMISSION

PHONE: 325-9232

641 WEST BROADWAY

## FOUR CORNERS SAMPLE CUT ASSOCIATION

P. O. BOX 899  
FARMINGTON, NEW MEXICO 87401

January 15, 1969

Mr. Jim Scurlock  
Oil & Gas Conservation Commission  
State of Arizona  
Room 202  
1624 West Adams  
Phoenix, Arizona 85007

Dear Jim:

The Following wells from Arizona have been delivered to  
the cut within the past two weeks.

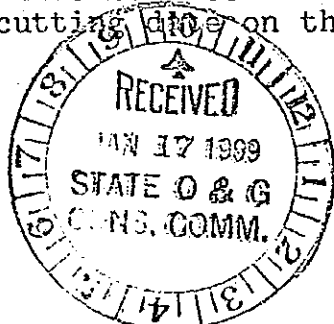
480 E.F. Doherty, #1-15 Navajo  
Sec.15-7N-7W  
Apache Co. Arizona

478 C.Little & E.Richardson, #1 Tohotso  
Sec.25-35N-29E  
Apache Co. Arizona

481 Consolidated, Navajo #2-41-28-13  
Sec.2-21N-28E  
Apache Co. Arizona

477 Union Oil, #1-166 Navajo  
Sec.20-6N-6W  
Apache Co. Arizona (Tite at present)

Since these have not been sent out on an order list I can not  
give you a cutting time on these.



Very truly yours,

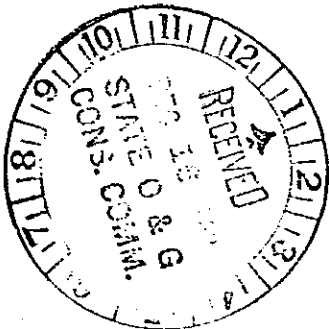
Jo Ratcliff  
Manager

Union Oil Company of California

P.O. Box 3372, Durango, Colorado 81301  
Telephone (303) 247-4300

**union** 76

December 13, 1968



Mr. John Bannister  
Executive Secretary  
O & G Conservation Commission  
State of Arizona  
Room 202  
1624 W. Adams  
Phoenix, Arizona

**SUBJECT**

Union Oil Company of California  
Navajo #1-166  
Section 20, T. 6N., R. 6W.  
Apache County, Arizona  
Arizona Permit No. 477

Gentlemen:

Enclosed for your files are the logs on the captioned well. Other required forms and reports are to be mailed from our Casper, Wyoming office. If you do not receive the required information please notify me.

The above captioned well is considered a "Tite Hole" (therefore the logs and other data are to remain confidential).

Yours truly,

UNION OIL COMPANY OF CALIFORNIA

*Clarence L. Harr*  
Clarence L. Harr  
District Exploration Superintendent

CLH/mr

Enclosures:

One (1) copy each: Sidewall Neutron Porosity Log  
Compensated formation Density Log  
Dual Induction-Laterolog

Union Oil Company of California

1860 Lincoln Street, Denver, Colorado 80203  
Telephone (303) 266-3331

**UNION** 76

Joseph L. Wilson  
Manager of Lands

December 3, 1968

Oil and Gas Conservation Commission  
State of Arizona  
Room 202  
1624 West Adams  
Phoenix, Arizona 85007


ATTN: Mr. James Scurlock  
Geologist

Re: Union #1-166 Navajo  
T6N, R6W, G & SRM  
Sec. 20: NW $\frac{1}{4}$ NW $\frac{1}{4}$   
Apache County, Arizona  
Permit #477

Gentlemen:

We have your letter of December 2, 1968 requesting a written request from our company that the captioned well be drilled tight. This letter will serve as our request that the captioned well be drilled tight and that the information relating to the drilling of said well be held confidential. Your courtesy in honoring this request shall be appreciated.

Very truly yours,

  
R. J. Morton  
Supervisor of Leases

RJM:jrc



#477



December 2, 1968

Mr. R. J. Morton  
Union Oil Company of California  
1860 Lincoln Street  
Denver, Colorado 80203

Re: Union #1-166 Navajo  
T6N, R6W, G & SRM  
Sec. 20: NW/4 NW/4  
Apache County, Arizona  
Permit #477

Dear Mr. Morton:

Mr. Gustafson of Durango, Colorado, stopped by this office on November 29 and asked that this well be drilled tight. His verbal request has been honored pending a written request that the captioned well be confidential. Should we not receive the written request within ten days, we will consider that the well information need not be held confidential.

Yours truly,

James Scurlock  
Geologist

js

477

November 6, 1968

Mr. R. J. Morton  
Union Oil Company of California  
1860 Lincoln Street  
Denver, Colorado 80203

Re: Union #1-166 Navajo  
T6N, R6W, NSM  
Sec. 20: NW/4 NW/4  
Apache County, Arizona  
Permit #477

Dear Mr. Morton:

Enclosed is an approved photographed copy  
of performance bond, approved Application  
To Drill, our receipt #9559, and Permit  
#477 applicable to the captioned well.

We also enclose instruction sheets for  
your information.

Yours truly,

James A. Lambert  
Administrative Assistant

JAL:jf  
Enclosures

cc: Mr. A. T. Mannon, Jr.

**THE ST. PAUL**  
INSURANCE COMPANIES



Serving you around the world...around the clock

PHOENIX SERVICE OFFICE  
635 WEST INDIAN SCHOOL ROAD  
PHOENIX, ARIZONA 85013  
PHONE: 277-4401

November 4, 1968

Oil and Gas Conservation Commission  
State of Arizona  
1624 West Adams  
Phoenix, Arizona

Att'n: Mr. John Bannister

Re: 400CF 7948/15194  
Union Oil Company of California

Dear Sir:

Please accept captioned bond for filing in the State of Arizona.  
It has been countersigned by an Arizona resident agent.

We trust you will find the bond in order.

Yours very truly,

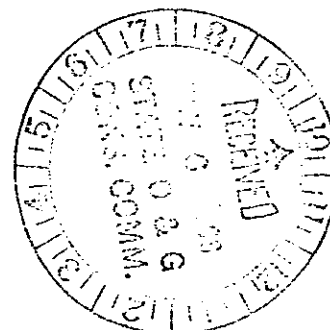
*Maxine Neihardt*

Maxine Neihardt  
MN/m

cc: Moore, Case, Lyman & Hubbard, Inc.  
175 W. Jackson Blvd.  
Chicago, Illinois 60604

cc: Union Oil Company  
1860 Lincoln Street  
Denver, Colorado 80203

Encl:



477

Union Oil Company of California  
1860 Lincoln Street, Denver, Colorado 80203  
Telephone (303) 266-3331

**union**

Joseph L. Wilson  
Manager of Lands

November 5, 1968

Oil and Gas Conservation Commission  
State of Arizona  
1624 West Adams  
Phoenix, Arizona 85007


ATTN: Mr. John Bannister  
Executive Secretary

Re: Union #1-166 Navajo  
T6N, R6W, NSM  
Sec. 20: NW $\frac{1}{4}$ NW $\frac{1}{4}$   
Apache County, Arizona  
Organization Report  
Blanket Bond

Gentlemen:

In keeping with the request of October 28, 1968 of your Mr. James A. Lambert, we enclose herewith an Organization Report dated October 31, 1968 for Union Oil Company of California. As for the bonding requirements as set forth in Mr. Lambert's letter of October 28, 1968 may we advise that the resident Arizona agent of St. Paul Fire and Marine Company is to deliver direct to you the appropriate \$25,000.00 Blanket Bond. Upon receipt of this bond, we shall appreciate your acknowledging your receipt of same together with advice as to the file reference which we may make in the future for said bond. Thank you very much.

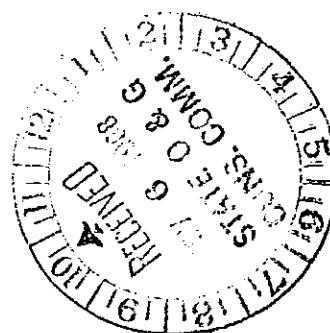
Very truly yours,

  
R. J. Morton  
Supervisor of Leases

RJM:jrc

Enclosure

477



October 28, 1968

Mr. A. T. Mannon, Jr.  
Union Oil Company of California  
Box 1611  
Casper, Wyoming 82601

Re: Union #1-166 Navajo  
T6N, R6W, NSM  
Sec. 20: NW/4 NW/4  
Apache County, Arizona

Dear Mr. Mannon:

We received your check #2384, our form #3 (Application For Permit To Drill), and the well location plat this date. We remind you that we need an Organization Report bearing a 1968 date. (See Rule 1003.) The Organization Report we have on file is dated September, 1965. Should there have been no change in these intervening times, a letter stating that fact will allow us to consider the Organization Report on file as being validated as of the date of your notification to us of this fact.

Union Oil Company must file a \$5,000 bond for this well or may choose to file a \$25,000 blanket bond to cover all wells you might drill in the State of Arizona. The bond is payable to the Oil and Gas Conservation Commission, State of Arizona. The Union Oil Company of California would be principal and some surety company of your choice will serve as surety. Be advised the bond should come through or be countersigned by the Arizona resident agent of the surety company.

Yours truly,

James A. Lambert  
Administrative Assistant

JAL:jf

477